



10-30-06

1645

*Handwritten signature/initials*

PTO/SB/21 (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/445,289-Conf. #9774	
	Filing Date	May 11, 2000	
	First Named Inventor	Galina V. Mukamolova	
	Art Unit	1645	
	Examiner Name	S. J. N. Devi	
Total Number of Pages in This Submission	43	Attorney Docket Number	60261(49946)

**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amend/Resp to Notice to Comply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	<b>Remarks</b>	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	Amendment Transmittal (1 page) Copy of Notice to Comply with Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (6 pages) Statement to Support Filing and Submission in Accordance with 37 C.F.R. 1.821-1.825 (1 page) Paper Copy of the "Sequence Listing" (31 pages) Computer readable form (CRF) copy of the "Sequence Listing" Return Receipt Postcard	

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name	EDWARDS ANGELL PALMER & DODGE LLP		
Signature	<i>Peter C. Lauro</i>		
Printed name	Peter C. Lauro		
Date	October 27, 2006	Reg. No.	32,360

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as Express Mail, Label No. EV 892898473 US, on the date shown below in an envelope addressed to:  
MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: October 27, 2006

Signature: *Peter C. Lauro* (Peter C. Lauro)

**AMENDMENT TRANSMITTAL LETTER**Docket No.  
60261(49946)Application No.  
09/445,289-Conf. #9774Filing Date  
May 11, 2000Examiner  
S. J. N. DeviArt Unit  
1645

Applicant(s): Galina V. Mukamolova et al.

Invention: BACTERIAL PHEROMONES AND USES THEREOF

**TO THE COMMISSIONER FOR PATENTS**

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated and is transmitted as shown below.

CLAIMS AS AMENDED					
	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate	
Total Claims	0	- 20 =	0	x 50.00	0.00
Independent Claims	0	- 3 =	0	x 200.00	0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					
Other fee (please specify):					
<b>TOTAL ADDITIONAL FEE FOR THIS AMENDMENT:</b>					0.00

☒ Large Entity☐ Small Entity☒ No additional fee is required for this amendment.☐ Please charge Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_.  
A duplicate copy of this sheet is enclosed.☐ A check in the amount of \$ \_\_\_\_\_ to cover the filing fee is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized to charge and credit Deposit Account No. 04-1105  
as described below. A duplicate copy of this sheet is enclosed.☒ Credit any overpayment.☒ Charge any additional filing or application processing fees required under 37 CFR 1.16 and 1.17.Dated: October 27, 2006

Peter C. Lauro

Attorney/Agent Reg. No.: 32,360

EDWARDS ANGELL PALMER &amp; DODGE LLP

P.O. Box 55874

Boston, Massachusetts 02205

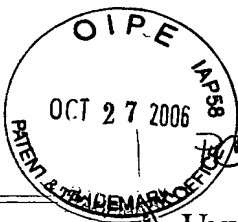
(617) 439-4444

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as Express Mail, Label No. EV 892898473 US, on the date shown below in an envelope addressed to:  
MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: October 27, 2006

Signature:

(Peter C. Lauro)



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/445,289	05/11/2000	GALINA V MUKAMOLOVA	49946-60261	9774

7590

09/29/2006

EDWARDS ANGELL PALMER & DODGE LLP  
P.O. BOX 55874  
BOSTON, MA 02205

EXAMINER

DEVI, SARVAMANGALA J N

ART UNIT

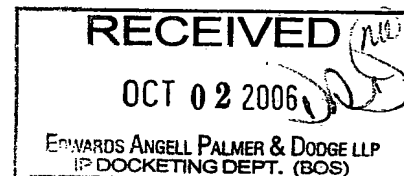
PAPER NUMBER

1645

DATE MAILED: 09/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Sequence Listing  
EDWARDS ANGELL PALMER & DODGE LLP  
101 Federal St. Boston, MA 02110  
Docketed For 10/29/06 - 3/29/07  
By [Signature]  
Approved                     



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
COMMISSIONER OF PATENTS AND  
TRADEMARKS  
Washington, D.C. 20231**

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
09/445,289	05/11/00	Mukamolova et al.	49946-60261
+			
			EXAMINER
			S. Devi, Ph.D
			ART UNIT      PAPER NUMBER
			1645      092006

DATE MAILED:

**Please find below a communication from the EXAMINER in charge of this application**

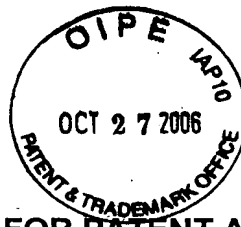
Commissioner of Patents

- 1) This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 C.F.R 1.821(a)(1) and (a)(2). A computer readable form (CRF) of the sequence listing was submitted. However, the CRF could not be processed by the Scientific and Technical Information Center (STIC) for the reason(s) set forth on the attached Raw Sequence Listing Error Report.
- 2) Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 C.F.R 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 C.F.R 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 C.F.R 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached CRF Diskette Problem Report with the reply.
- 3) Any inquiry concerning this communication or earlier communications from the Examiner should be directed to S. Devi, Ph.D., whose telephone number is (571) 272-0854. The Examiner can normally be reached on Monday-Friday from 7:15 a.m. to 4:15 p.m. (Eastern Time).

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Acting supervisor, Albert Navarro, can be reached at (571) 272-0861. The FAX phone number for group 1600 is (571) 273-8300.

S. DEVI, PH.D.  
PRIMARY EXAMINER

September, 2006



Application No.: 09/445,289

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☒ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: \_\_\_\_\_

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE**

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/445,289E  
Source: TEC 216  
Date Processed by STIC: 09/07/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/445,289E

DATE: 09/07/2006

TIME: 14:43:59

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\09062006\I445289E.raw

3 <110> APPLICANT: MUKAMOLOVA, GALINA V.  
 4 KAPRELYANTS, ARSENY S.  
 5 YOUNG, DANIELLE I.  
 6 KELL, DOUGLAS B.  
 7 YOUNG, MICHAEL  
 9 <120> TITLE OF INVENTION: BACTERIAL PHEROMONES AND USES THEREFOR  
 11 <130> FILE REFERENCE: 49946-60261  
 13 <140> CURRENT APPLICATION NUMBER: 09/445,289E  
 14 <141> CURRENT FILING DATE: 2000-05-11  
 16 <150> PRIOR APPLICATION NUMBER: PCT/GB98/01618  
 17 <151> PRIOR FILING DATE: 1998-06-03  
 19 <150> PRIOR APPLICATION NUMBER: GB 9711389.8  
 20 <151> PRIOR FILING DATE: 1997-06-04  
 22 <150> PRIOR APPLICATION NUMBER: GB 9811221.2  
 23 <151> PRIOR FILING DATE: 1998-05-27  
 E--> 25 <160> NUMBER OF SEQ ID NOS: 62  
 27 <170> SOFTWARE: PatentIn Ver. 3.2

Does Not Comply  
 Corrected Diskette Needed

CP8-1)

→ found 63

ERRORED SEQUENCES

VERIFICATION SUMMARY

DATE: 09/07/2006

PATENT APPLICATION: US/09/445,289E

TIME: 14:44:00

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\09062006\I445289E.raw

L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:1280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:1283 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:16  
L:1338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:1686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0  
L:1706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0  
L:1722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0  
L:25 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (62) Counted (63)

Best Available Copy